

1 What is claimed is:

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3 1. A dryer comprising:

4 a cabinet;

5 a drum;

6 a motor; and

7 a heater assembly comprising:

8 a heater case having an air passage inside;

9 a plate partitioning the air passage into an upper passage and a lower
10 passage; and

11 first and second coil arrays independently provided to the air passage
12 to alternately cross the plate between the upper and lower passages.

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14 2. The dryer as claimed in claim 1, wherein the first coil array leaves a
15 predetermined distance from the second coil array.

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17 3. The dryer as claimed in claim 1, wherein the first coil array is symmetrical to
18 the second coil array centering on the plate.

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20 4. The dryer as claimed in claim 1, wherein each of the first and second coil
21 arrays is electrically connected in one body.

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23 5. The dryer as claimed in claim 1, wherein a plurality of coils are provided to
24 top and bottom points of the first and second coil arrays, respectively.

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26 6. The dryer as claimed in claim 5, wherein the top and bottom points lie on
27 centerlines of the upper and lower passages, respectively.

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29 7. The dryer as claimed in claim 5, wherein the coils provided to the first coil
30 array leave a predetermined interval along a flowing direction of air from the other coils
31 provided to the second coil array, respectively.

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33 8. The dryer as claimed in claim 1, wherein the first and second coil arrays are
34 alternately zigzagged to cross the plate.

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36 9. The dryer as claimed in claim 1, wherein the first and second coil arrays are
37 separately controlled.

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39 10. A heater assembly of a dryer, comprising:
40 a heater case having an air passage inside;
41 a plate partitioning the air passage into an upper passage and a lower
42 passage; and
43 first and second coil arrays independently provided to the air passage
44 to alternately cross the plate between the upper and lower passages.

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46 11. The heater assembly as claimed in claim 10, wherein the first coil array
47 leaves a predetermined distance from the second coil array.

49 12. The heater assembly as claimed in claim 10, wherein the first coil array is
50 symmetrical to the second coil array centering on the plate.

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52 13. The heater assembly as claimed in claim 10, wherein each of the first and
53 second coil arrays is electrically connected in one body.

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55 14. The heater assembly as claimed in claim 10, wherein a plurality of coils are
56 provided to top and bottom points of the first and second coil arrays, respectively.

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58 15. The heater assembly as claimed in claim 14, wherein the top and bottom
59 points lie on centerlines of the upper and lower passages, respectively.

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61 16. The heater assembly as claimed in claim 14, wherein the coils provided to the
62 first coil array leave a predetermined interval along a flowing direction of air from the other
63 coils provided to the second coil array, respectively.

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65 17. The heater assembly as claimed in claim 10, wherein the first and second coil
66 arrays are alternately zigzagged to cross the plate.

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68 18. The heater assembly as claimed in claim 10, wherein the first and second coil
69 arrays are separately controlled.